

# JVC VIDEO CASSETTE RECORDER

# HR-J7010UM



## INSTRUCTIONS

LPT0755-001B  
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### Dear Customer,

Thank you for purchasing the JVC VHS video cassette recorder. Before use, please read the safety information and precautions to ensure safe use of your new VCR.

## CAUTIONS

**WARNING: DANGEROUS VOLTAGE INSIDE**  
**WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.**

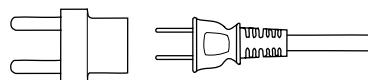
The POWER  $\phi$ /I button does not completely shut off mains power from the unit, but switches operating current on and off. "O" shows electrical power standby and "I" shows ON.

This unit is produced to comply with Standard IEC 60065.

### POWER SYSTEM:

This set operates on voltage of AC 110 – 220V~, 50 Hz/60 Hz with automatic switching.

Use the conversion plug (provided) depending on the type of your AC WALL outlet.



The rating plate and safety caution are on the rear of the unit.

### IMPORTANT:

It may be unlawful to record or play back copyrighted material without the consent of the copyright owner.

### CAUTION

- When you are not using the VCR for a long period of time, it is recommended that you disconnect the power cord from the AC outlet.
- Dangerous voltage inside. Refer internal servicing to qualified service personnel. To prevent electric shock or fire hazard, remove the power cord from the AC outlet prior to connecting or disconnecting any signal lead or aerial.
- Changes or modifications not approved by JVC could void user's authority to operate the equipment.

### Caution on Replaceable lithium battery

The battery used in this device may present a fire or chemical burn hazard if mistreated. Do not recharge, disassemble, heat above 100°C or incinerate.

Replace battery with CR2032. Panasonic (Matsushita Electric) or Maxell is recommended.

Danger of explosion or Risk of fire if the battery is incorrectly replaced.

- Dispose of used battery promptly.
- Keep away from children.
- Do not disassemble and do not dispose of in fire.



- Cassettes marked "VHS" (or "S-VHS") can be used with this video cassette recorder. However, S-VHS recordings is not possible with this model.
- This model is equipped with S-QPB (S-VHS QUASI PLAYBACK) that makes it possible to play back S-VHS recordings with regular VHS resolution.
- HQ VHS is compatible with existing VHS equipment.

When the equipment is installed in a cabinet or a shelf, make sure that it has sufficient space on all sides to allow for ventilation (10 cm or more on both sides, on top and at the rear).

When discarding batteries, environmental problems must be considered and the local rules or laws governing the disposal of these batteries must be followed strictly.

### Failure to heed the following precautions may result in damage to the VCR, Remote or video cassette.

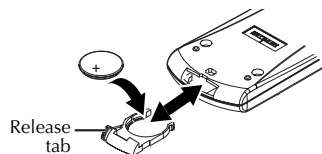
1. DO NOT place the VCR ...
  - ... in an environment prone to extreme temperatures or humidity.
  - ... in direct sunlight.
  - ... in a dusty environment.
  - ... in an environment where strong magnetic fields are generated.
  - ... on a surface that is unstable or subject to vibration.
2. DO NOT block the VCR's ventilation openings or holes. (If the ventilation openings or holes are blocked by a newspaper or cloth, etc., the heat may not be able to get out.)
3. DO NOT place heavy objects on the VCR or Remote.
4. DO NOT place anything which might spill on top of the VCR or Remote.  
(If water or liquid is allowed to enter this equipment, fire or electric shock may be caused.)
5. DO NOT expose the apparatus to dripping or splashing.
6. DO NOT use this equipment in a bathroom or places with water. Also DO NOT place any containers filled with water or liquids (such as cosmetics or medicines, flower vases, potted plants, cups, etc.) on top of this unit.
7. DO NOT place any naked flame sources, such as lighted candles, on the apparatus.
8. AVOID violent shocks to the VCR during transport.

## MOISTURE CONDENSATION

Moisture in the air will condense on the VCR when you move it from a cold place to a warm place, or under extremely humid conditions—just as water droplets form on the surface of a glass filled with cold liquid. Moisture condensation on the head drum will cause damage to the tape. In conditions where condensation may occur, keep the VCR's power turned on for a few hours to let the moisture dry.

### How to use the Remote

Before use, insert the lithium battery — CR2032 — correctly, with the plus(+) side up into the battery compartment. To open it, press the release tab and carefully, pull the compartment out.



The Remote can operate most of your VCR's functions, as well as basic functions of JVC TVs.

- Point the Remote towards the remote sensor on the target component. The maximum operating distance is about 8 m.
- To operate a JVC TV, use any of the following buttons: **TV POWER, TV INPUT, TV CH+/- or TV VOL +/-**.

### NOTE:

*If the Remote does not work properly, remove its battery, wait for a few seconds, replace the battery and then try again.*

### Video heads cleaning

The heads get dirty in the following cases:

- in an environment prone to extreme temperature or humidity.
- in a dusty environment
- flaw, dirt or mold on video tapes
- continuous usage for a long time

Use a dry cleaning cassette — TCL-2 — when:

- Rough, poor picture appears while a tape is played back.
- The picture is unclear or no picture appears.
- "USE CLEANING CASSETTE" appears on the screen (only with "SUPERIMPOSE" set to "ON") (pg. 14).

### ATTENTION

#### To mobile phone user:

Using a mobile phone in the vicinity of the VCR may cause picture vibration on the TV screen or change the screen to a blue back display.

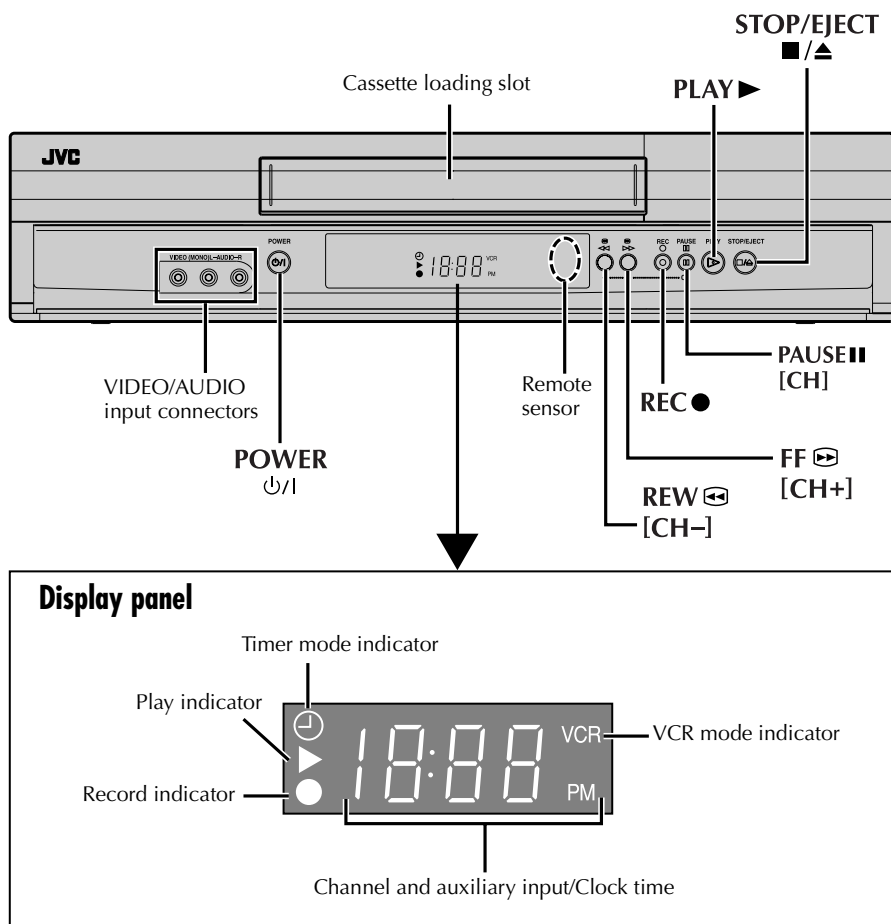
#### On placing the VCR:

Some TVs generate strong magnetic fields.

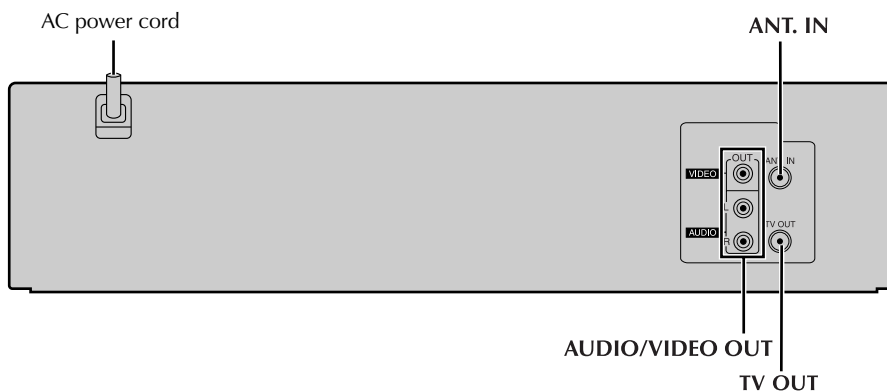
- Make sure to place the VCR at least 20 cm (7 or 8 inches) away from a TV.
- DO NOT place the VCR close to a TV as it may cause noise, picture disturbance or malfunctions (power off, etc.) to occur.

# Buttons, Connectors and Indicators

## Front Panel



## Rear Panel





The diagram shows a cassette player's display panel with the following features and callouts:

- 1**: Points to the top left corner of the display area.
- 2**: Points to the text "CH125".
- 3**: Points to the text "THU 12:00 AM".
- 4**: Points to the text "STEREO".
- 5**: Points to the text "SAP".
- 6**: Points to the text "COUNT".
- 7**: Points to the text "INDEX 1".
- 8**: Points to the text "B" and "E" at the ends of a progress bar.
- 9**: Points to the text "TIMER RECORDING TO START SOON (CANCEL)".
- 10**: Points to the "RECORD PAUSE" button with a square icon.
- 11**: Points to the "SP" button.
- 12**: Points to the top right corner of the display area.

- ## To recall an indication

- 4 —

# Basic Connections

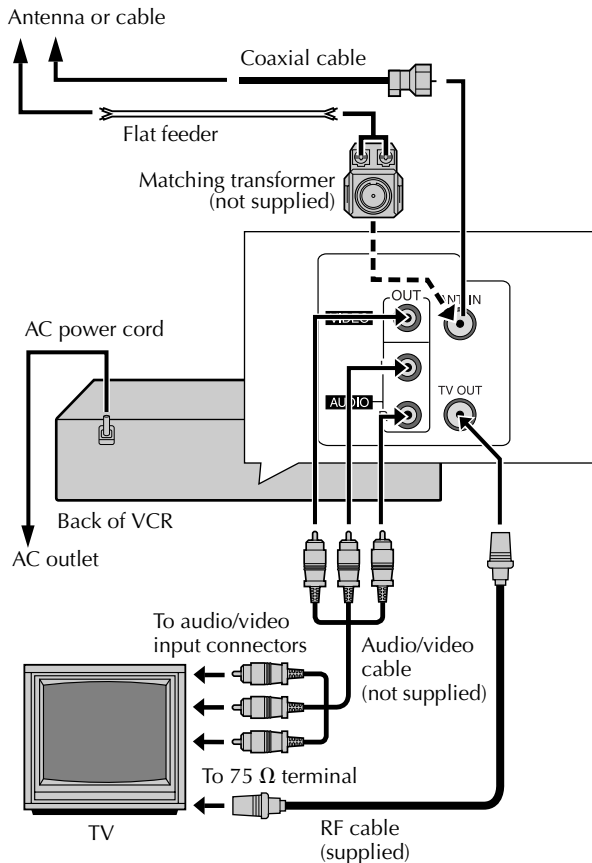
## 1 Check contents

Make sure the package contains all of the accessories listed in "Specifications" (pg. 16).

## 2 Situate VCR

Place the VCR on a stable, horizontal surface.

## 3 Connect VCR to TV



## RF Connection

- 1 Disconnect the TV antenna from the TV.
- 2 Connect the TV antenna cable to the ANT. IN terminal on the rear of the VCR.
- 3 Connect the supplied RF cable between the TV OUT terminal on the rear of the VCR and the TV's antenna input terminal.

## AV Connection

(improves picture quality during tape playback.)

If your TV is equipped with audio/video input connectors

- 1 Connect the antenna, VCR and TV as shown in the illustration.
  - 2 Connect an audio/video cable between the AUDIO/VIDEO OUT connectors on the rear of the VCR and the audio/video input connectors on the TV.
- Even if you are using audio/video cables to connect your VCR to your TV, you must also connect it using the RF cable. This will ensure that you can record one show while watching another.

## 4 Connect VCR to power source

Plug the AC power cord into an AC outlet.

## 5 Set VCR channel

The VCR channel is the channel on which you can watch the picture from the VCR on the TV when only using the RF connection. When the VCR is turned off, press **STOP/EJECT**

(■/▲) on the VCR for more than 5 seconds. "CH3" appears on the display panel. Press **CH**  $\Delta/\nabla$  on the Remote to select "CH3", "CH4" or "CH-"(OFF), then press **OK**.

- If Plug&Play or Tuner setting has not previously been performed, the Language Select screen appears and Plug&Play takes place automatically.
- The VCR channel is preset to "CH3". Set to "CH4" if CH3 is used for broadcasting in your area.

## 6 Final preparation for use

Turn on the VCR and the TV, and select the VCR channel 3 or 4 (or AV mode) on the TV.

- If you connect the TV and the VCR only using the RF connection, press **TV/VCR** on the Remote so that the VCR mode indicator lights on the display panel.

# Initial Settings

## Plug&Play Setting

### 1 Perform Plug&Play setup

Press  $\triangle/\nabla$ .

- The Language Select screen appears.

### 2 Select language

Press  $\triangle/\nabla$  to move the highlight bar (arrow) to your desired language (ENGLISH or ESPAÑOL), then press **OK** or  $\triangleright$ .

- The Clock Set screen appears.

### 3 Set time

Press  $\triangle/\nabla$  to set the hour, then press **OK** or  $\triangleright$ .

- Press and hold either button to delay or advance the time by 30 minutes.

### 4 Set date

Press  $\triangle/\nabla$  to set the date, then press **OK** or  $\triangleright$ .

- Press and hold either button to change the date by 15 days.

### 5 Set year

Press  $\triangle/\nabla$  to set the year.

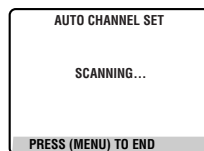
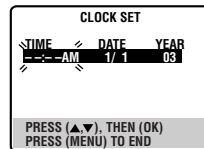
### 6 Start auto channel set

Press **MENU**.

- Receivable channels in your area are automatically assigned to the **CH+/-** or **CH**  $\triangle/\nabla$  buttons, and non-receivable channels are skipped.
- If the tuner channels have been set properly "SCAN COMPLETED" will be displayed on the screen. If "SCAN COMPLETED-NO SIGNAL-" is displayed on the screen, make sure that the antenna cable is connected to the VCR properly and press **OK** or  $\triangleright$  on the Remote. The VCR will try Auto Channel Set again.

### 7 Return to normal screen

Press **MENU**.



## Language Setting

Use language setting only if the language have not been set correctly by the Plug&Play setting. The default setting is "ESPAÑOL".

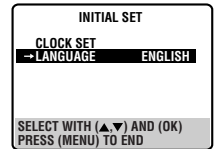
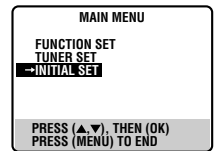
### 1 Access Main Menu screen, then Initial Set screen

Press **MENU** on the Remote. Press  $\triangle/\nabla$  to move the highlight bar (arrow) to "INITIAL SET", then press **OK** or  $\triangleright$ .

### 2 Select language

Press  $\triangle/\nabla$  to move the highlight bar (arrow) to "LANGUAGE", then press **OK** or  $\triangleright$  repeatedly until the desired language is selected.

Press **MENU** to return to normal screen.



## Clock Setting

Perform clock setting only if the clock has not been set correctly by the Plug&Play setting.

### 1 Access Main Menu screen, then Initial Set screen

Press **MENU** on the Remote. Press  $\triangle/\nabla$  to move the highlight bar (arrow) to "INITIAL SET", then press **OK** or  $\triangleright$ .

### 2 Access Clock Set screen

Press  $\triangle/\nabla$  to move the highlight bar (arrow) to "CLOCK SET", then press **OK** or  $\triangleright$ .

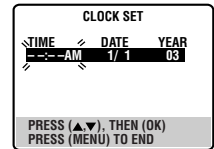
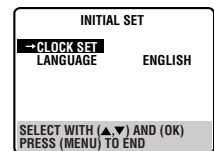
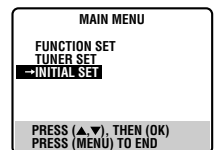
### 3 Set time, date and year

Press  $\triangle/\nabla$  until the desired time appears, then press **OK** or  $\triangleright$ . Set the date and year in the same way.

- Holding  $\triangle/\nabla$  changes the time in 30-minute intervals, or changes the date in 15-day intervals.

### 4 Start clock

Press **MENU** and normal screen appears.



### To make corrections any time during the process

Press **OK** or  $\triangleright$  repeatedly until the item you want to change blinks, then press  $\triangle/\nabla$ .

# Tuner Setting

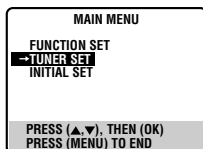
## Setting channels automatically

### — Auto Channel Set

Perform Auto Channel Set only if channels have not been set correctly by the Plug&Play setting.

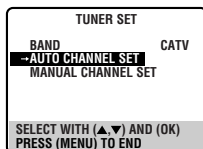
#### 1 Access Main Menu screen, then Tuner Set screen

Press **MENU** on the Remote. Press  $\triangle/\nabla$  to move the highlight bar (arrow) to “TUNER SET”, then press **OK** or  $\triangleright$ .



#### 2 Perform Auto Channel Set

Press  $\triangle/\nabla$  to move the highlight bar (arrow) to “AUTO CHANNEL SET”, then press **OK** or  $\triangleright$ . The VCR selects the correct band (TV or CATV) automatically during Auto Channel Set.



- When Auto Channel Set is complete, “SCAN COMPLETED” appears on screen.

- If the scan was unsuccessful, “SCAN COMPLETED–NO SIGNAL–” appears on screen. Check the connections and start again.

Press **MENU** to return to normal screen.



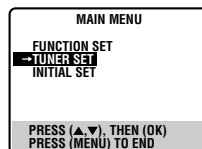
## Setting channels manually

### — Manual Channel Set

You can add the channels you want or delete the channels you do not want manually.

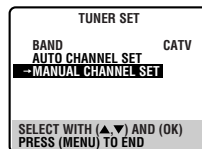
#### 1 Access Main Menu screen, then Tuner Set screen

Press **MENU** on the Remote. Press  $\triangle/\nabla$  to move the highlight bar (arrow) to “TUNER SET”, then press **OK** or  $\triangleright$ .



#### 2 Access Manual Channel Set screen

Press  $\triangle/\nabla$  to move the highlight bar (arrow) to “MANUAL CHANNEL SET”, then press **OK** or  $\triangleright$ .



#### 3 Add or skip desired channels

##### To add channels

- 1 Press the **Number** keys on the Remote to input a channel number you want to add.

- 2 Press **OK** or  $\triangleright$  to set to “ADD”.

- 3 Repeat 1 to 2 to add other channels.

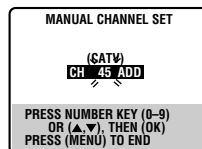
Press **MENU** to return to normal screen.

##### To skip channels

- 1 Press  $\triangle/\nabla$  or the **Number** keys to select a channel number you want to skip.

- 2 Press **OK** or  $\triangleright$  to set to “SKIP”.

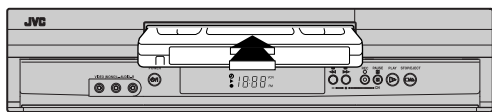
- 3 Repeat 1 and 2 to skip other channels. Press **MENU** to return to normal screen.



# Playback

## Basic Playback

### 1 Load a cassette



Make sure the window side is up, the rear label side is facing you and the arrow on the front of the cassette is pointing towards the VCR.

- Do not apply too much pressure when inserting.
- The VCR turns on, and the counter on the on-screen display is reset, automatically.
- If the cassette's record safety tab has been removed, playback begins automatically.

### 2 Start playback

Press **PLAY** (▶).

#### During playback

##### Stop playback

Press **STOP** (■) on the Remote. **OR** Press **STOP/EJECT** (■ / ▲) on the VCR.

##### Pause playback and view still picture

Press **PAUSE** (||).

- Press **PLAY** (▶) to resume normal playback.

##### NOTE:

During still picture, vertical vibration may appear on the TV screen. Press **CH** △/▽ on the Remote to get a clearer picture.

##### Pause and Frame-by-Frame playback

Press **PAUSE** (||) to pause, then press **◀◀** or **▶▶** (or **PAUSE** (||)) repeatedly.

- Press **PLAY** (▶) to resume normal playback.

##### Picture search

Press **REW** (◀◀) or **FF** (▶▶). Press **REW** (◀◀) or **FF** (▶▶) again to perform high-speed search.

- Each time you press **REW** (◀◀) or **FF** (▶▶), the search speed changes between low-speed and high-speed.
- Press **PLAY** (▶) to resume normal playback.

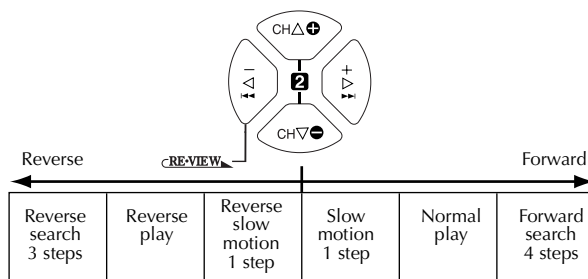
##### Variable-Speed Picture Search (including slow-motion)

Press **◀◀** or **▶▶** repeatedly.

- Press **PLAY** (▶) to resume normal playback.
- Each time you press **◀◀** or **▶▶**, the playback speed changes. To decrease the speed during picture search, press the opposite direction button repeatedly.
- During still picture, press and hold **▶▶** to start forward (or **◀◀** to start reverse) slow motion playback. When you release the button, still picture resumes. During still picture, holding **PAUSE** (||) for more than 2 seconds also starts forward slow motion playback. If you press **PAUSE** (||) again, still picture resumes.

##### NOTE:

During slow motion, some noise may appear on the TV screen. Press **CH** △/▽ on the Remote to eliminate the noise.



### When the tape is not running

#### Rewind/fast-forward

Press **REW** (◀◀) or **FF** (▶▶).

#### Eject the tape

Press **STOP/EJECT** (■ / ▲).

- You can also eject the cassette when the VCR is turned off.

#### Turn off the VCR

Press **POWER** ⏻.

## Playback Features

### Adjusting tracking condition

#### — tracking adjustment

##### Automatic tracking adjustment

Whenever you insert a tape and start playback, automatic tracking starts working and continuously analyzes the signal to enable optimum picture quality during playback.

##### Manual tracking adjustment

If automatic tracking cannot eliminate noises well during playback, follow the procedures below.

- 1 Press **SP/EP** on the Remote to activate manual tracking.
- 2 Press **CH** △/▽ to eliminate the noises. Press it briefly for a fine adjustment, or press and hold for a coarse adjustment.
  - Press **SP/EP** again to reactivate automatic tracking.

### Selecting monitor sound

#### — Audio Monitor

While playing back a tape on which stereo sound or SAP sound is recorded, press **A. MONITOR** on the Remote. Each time you press the button, sound changes.

HI-FI: Normally select this. Hi-Fi sound is played back.

HI-FI L: Sound on the left Hi-Fi channel is played back.

HI-FI R: Sound on the right Hi-Fi channel is played back.

NORM: Sound on the normal track is played back.

NORM HI-FI: Both sounds on the Hi-Fi track and normal track are mixed and played back.

##### NOTE:

The above indication appears when "SUPERIMPOSE" is set to "ON" (pg. 14), though the monitor sound changes in sequence.



## – Playback –

### Automatic operations after rewinding

#### — Next Function Memory

The Next Function Memory “tells” the VCR what to do after rewinding is complete. Ensure that the VCR is in stop mode.

- **For Automatic Playback Start**

Press **REW** (◀◀), then press **PLAY** (▶) within 2 seconds.

- **For Automatic Power Off**

Press **REW** (◀◀), then press **POWER** ⏻ within 2 seconds.

- **For Automatic Timer Standby**

Press **REW** (◀◀), then press **TIMER** within 2 seconds.

**NOTE:**

*It is not possible to select the Automatic Timer Standby function if the cassette's record safety tab is removed.*

### Playing back tape repeatedly (100 times)

#### — Repeat Play

During playback, press and hold **PLAY** (▶) for more than 5 seconds. The play indicator (▷) on the display panel starts blinking slowly. To stop playback, press **STOP** (■) on the Remote or **STOP/EJECT** (■/▲) on the VCR.

**NOTE:**

*Pressing **PLAY** (▶), **REW** (◀◀), **FF** (▶▶) or **PAUSE** (||) also cancels repeat playback.*

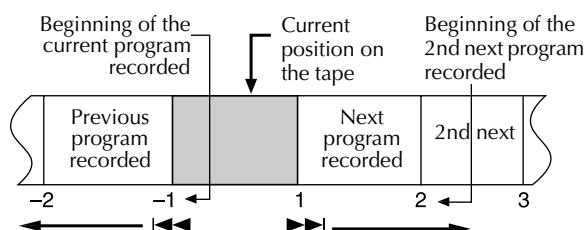
### Locating beginning of recordings

#### — Index Search

Index codes are placed on the tape at the beginning of each recording when recording on this VCR.

**1** While the tape is not running, press ◀ or ▷ (◀◀ or ▶▶) on the Remote to start search.

**2** To access a recording of 2 to 9 index codes away, press ◀ or ▷ (◀◀ or ▶▶) repeatedly until the correct number is displayed on the screen (only if “SUPERIMPOSE” is set to “ON”) (pg. 14). Playback begins automatically when the desired recording is located.



### Locating beginning of timer recordings

#### — Instant Review

After ensuring that the VCR is turned off and that the timer mode is disengaged, press **REVIEW** on the Remote.

- The VCR turns on, and rewinds to the index code indicating the beginning of the last timer-recorded program, then begins playback automatically.
- You can access a program of 2 to 9 index codes away from the current position on the tape. If, for example, you have 5 programs recorded and you want to watch the third one, press **REVIEW** three times.
- The Instant Review function will also operate if the VCR is turned on.

### Skipping unwanted portions

#### — Skip Search

Press **SKIP SEARCH** on the Remote once to 4 times during playback. Each press initiates a 30-second period of high speed playback (up to 2 minutes). When the specified portion of the tape is skipped, normal playback resumes automatically. To return to normal playback during Skip Search, press **PLAY** (▶).

# Recording

## Accidental erasure prevention

To prevent accidental recording on a recorded cassette, remove its record safety tab. To record on it later, cover the hole with adhesive tape.



## Basic Recording

### 1 Load a cassette

Make sure the record safety tab is intact. If not, cover the hole with adhesive tape before inserting the cassette.

- The VCR turns on, and the counter is reset, automatically.

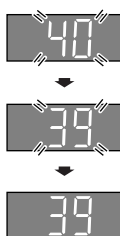
### 2 Select recording channel

#### On the Remote

Press **CH**  $\Delta/\nabla$  or the **Number** keys.

#### On the VCR

Press **PAUSE**[CH]. The channel display on the display panel starts blinking. While the display is blinking, press **FF**[CH+] or **REW**[CH-] to select channel. After about 5 seconds, the channel display stops blinking.



## NOTES:

- You can select channel in the stop mode, recording pause mode or during rewind/fast-forward.
- If you connect the TV and the VCR only using the RF connection (pg. 5), press **TV/VCR** on the Remote so that the VCR mode indicator lights on the display panel, to view the program to be recorded.

### 3 Set tape speed

Press **SP/EP**. The selected tape speed will appear on the TV screen.

### 4 Start recording

On the VCR, press **REC** (●). Or on the Remote, while holding **REC** (●), press **PLAY** (▶).

## During recording

### Pause recording

Press **PAUSE** (II).

- Press **PLAY** (▶) to resume recording.
- You can select channel in the recording pause mode.

### Stop recording

Press **STOP** (■) on the Remote. **OR** Press **STOP/EJECT** (■/▲) on the VCR.

## NOTE:

If the tape reaches its end during recording, the recording stops and "O" and "▷" on the display panel blink. Press **STOP/EJECT** (■/▲) on the VCR to eject the cassette or press **REW** (◀) on the Remote to rewind the tape.

# Recording Features

## Specifying recording length

### — Instant Timer Recording (ITR)

During recording, press **REC** (●) on the VCR repeatedly until the recording length you want appears on the display panel. The record indicator (○) on the display panel starts blinking.

- Each time you press the button, recording length increases in 30-minute intervals (up to 6 hours).
- The VCR shuts off after recording is finished.
- To cancel an ITR, press **STOP** (■) on the Remote or **STOP/EJECT** (■/▲) on the VCR.

## Watching one program while recording another

During recording...

- If you connect the TV and the VCR only using the RF connection (pg. 5) to view pictures from the VCR, press **TV/VCR** on the Remote so that VCR mode indicator goes off from the display panel. (The TV broadcast being recorded disappears.)
- If you are using the AV connection (pg. 5) to view pictures from the VCR, change the TV's input mode from AV to TV. Then, select the channel you want to watch, on the TV.

## Second Audio Recording

This VCR's built-in MTS decoder enables reception of Multichannel TV Sound broadcast. To record a SAP program received, set "2ND AUDIO RECORD" to "ON" (pg. 14).

## Recording Resume Function

If there is a power outage during recording (or Instant Timer Recording, or timer recording), the recording will resume automatically when the power is restored to the VCR. (No setting is required for this function).

# Timer Recording

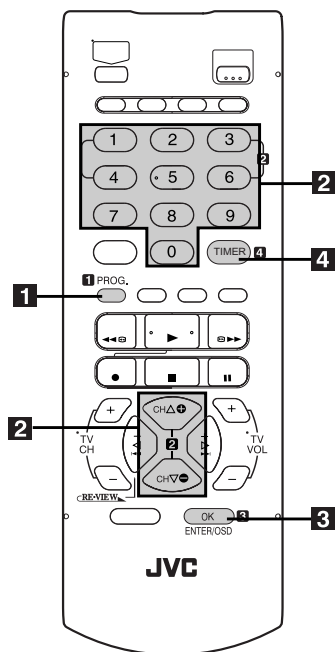
Up to 8 timer recording programs can be made using Express timer programming method as far as a year in advance. Remember, the clock must be set before you can program the timer.

## NOTES:

- If all the 8 programs have already been set, "PROGRAM FULL" appears on the TV screen.
- After timer recording is completed, the VCR turns off automatically.
- You can program the timer recording while a regular recording is in progress; the menu screens will not be recorded.
- If the tape reaches its end during timer recording, the recording stops and "⊖", "○" and "▷" on the display panel blink. Press **TIMER** to disengage timer, then press **STOP/EJECT** (■/▲) on the VCR to eject the cassette or press **POWER** (⏻) then press **REW** (◀◀) to rewind the tape.

## Express Timer Programming

Load a cassette with the record safety tab intact. The VCR turns on, and the counter is reset, automatically.



**1** Press **PROG.** on the Remote to access the Program screen.

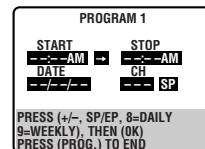
**2** Press **START** ⊕/⊖ (Number keys "1" and/or "4"), **STOP** ⊕/⊖ (Number keys "2" and/or "5"), **DATE** ⊕/⊖ (Number keys "3" and/or "6"), or **CH** ⊕/⊖ repeatedly to enter the start time, stop time, date or channel.

- Press and hold **START** ⊕/⊖ or **STOP** ⊕/⊖ to increase the time in 30-minute intervals.
- To set the tape speed, press **SP/EP**.
- To timer-record daily (Monday–Friday) or weekly serials, press **DAILY (M-F)** (Number key "8") or **WEEKLY** (Number key "9"). Pressing the button again makes the "DAILY" or "WEEKLY" display disappear.

**3** Press **OK** or **PROG.**

- If "PROGRAM NOT COMPLETED PROGRAM OVERLAP" appears, see "Program overlap warning display" (pg. 12).

**4** Press **TIMER**. The VCR turns off automatically and "⊖" is displayed on the display panel.



## To use the VCR while it is in timer recording standby mode

Press **TIMER**, then press **POWER** (⏻). After you use the VCR, press **TIMER** again to put the VCR into timer recording standby mode.

## Checking, canceling or changing program settings

### 1 Disengage timer

Press **TIMER**, then press **POWER**  $\odot$ /I.

- When “AUTO TIMER” (pg. 13) is set to “ON”, you do not have to press **TIMER**.

### 2 Access Program Check screen

Press **PROG. CHECK**.

| PR | START  | STOP  | CH  | DATE  |
|----|--------|-------|-----|-------|
| 1  | 8:00P  | 10:00 | 12  | 12/24 |
| 2  | 10:00A | 10:45 | 40  | 12/25 |
| 3  | 11:30P | 1:00  | 125 | 12/25 |
| 4  |        |       |     |       |
| 5  |        |       |     |       |
| 6  |        |       |     |       |
| 7  |        |       |     |       |
| 8  |        |       |     |       |

PRESS (CHECK) TO NEXT

### 3 Access Program screen

Press **PROG. CHECK** again. Each time you press **PROG. CHECK**, the next program's Program screen appears.

| PROGRAM 1                |          |      |         |    |
|--------------------------|----------|------|---------|----|
| START                    | 8:00PM   | STOP | 10:00PM |    |
| DATE                     | 12/24/03 | CH   | 12      | SP |
| PRESS (CANCEL) TO CANCEL |          |      |         |    |
| PRESS (CHECK) TO NEXT    |          |      |         |    |

### 4 Cancel or change program setting

To cancel a program, press **CANCEL** when the Program screen you do not want is shown.

To change a program, press the appropriate button: **START**  $\oplus/\ominus$  (Number keys “1” and/or “4”), **STOP**  $\oplus/\ominus$  (Number keys “2” and/or “5”), **DATE**  $\oplus/\ominus$  (Number keys “3” and/or “6”), **CH**  $\oplus/\ominus$ , **DAILY (M-F)** (Number key “8”), **WEEKLY** (Number key “9”) and/or **SP/EP** when the Program screen on which you want to make changes is shown.

### 5 Return to normal screen

Press **PROG. CHECK** repeatedly until no Program screen is shown.

### 6 Reengage timer recording standby mode

Press **TIMER**. The VCR turns off automatically and “ $\odot$ ” is displayed on the display panel.

- When “AUTO TIMER” (pg. 13) is set to “ON”, the timer recording standby mode automatically resumes when you turn off the VCR.

## Program overlap warning display

If “PROGRAM NOT COMPLETED PROGRAM OVERLAP” appears, you have another program overlapping the program you have just made. The Program Check screen appears and conflicting programs will start blinking.

|                       |  |  |  |  |
|-----------------------|--|--|--|--|
| PROGRAM NOT COMPLETED |  |  |  |  |
| PROGRAM OVERLAP       |  |  |  |  |

→

| PR | START  | STOP  | CH  | DATE  |
|----|--------|-------|-----|-------|
| 1  | 8:00P  | 10:00 | 12  | 12/24 |
| 2  | 10:00A | 10:45 | 40  | 12/25 |
| 3  | 11:30P | 1:00  | 125 | 12/25 |
| 4  | 9:00P  | 10:00 | 10  | 12/24 |
| 5  |        |       |     |       |
| 6  |        |       |     |       |
| 7  |        |       |     |       |
| 8  |        |       |     |       |

( $\blacktriangle$ ), THEN ( $\blacktriangleright$ ) (PROG.): END

Example:

Program 1 (you have just made) and Program 4 overlap each other

### 1 Select program to modify

Press  $\triangle$ / $\nabla$ , then press  $\triangleright$ .

- You can only select one of the overlapping programs.
- If you do not mind this overlap, press **PROG.** to finish the timer program setting. The program starting earlier or program with the lower program number will be recorded.

| PR | START  | STOP  | CH  | DATE  |
|----|--------|-------|-----|-------|
| 1  | 8:00P  | 10:00 | 12  | 12/24 |
| 2  | 10:00A | 10:45 | 40  | 12/25 |
| 3  | 11:30P | 1:00  | 125 | 12/25 |
| 4  | 9:00P  | 10:00 | 10  | 12/24 |
| 5  |        |       |     |       |
| 6  |        |       |     |       |
| 7  |        |       |     |       |
| 8  |        |       |     |       |

( $\blacktriangle$ ), THEN ( $\blacktriangleright$ ) (PROG.): END

### 2 Cancel or change program setting

To cancel a program, press **CANCEL** when the Program screen you do not want is shown.

To change a program, press the appropriate button: **START**  $\oplus/\ominus$  (Number keys “1” and/or “4”), **STOP**  $\oplus/\ominus$

- (Number keys “2” and/or “5”), **DATE**  $\oplus/\ominus$  (Number keys “3” and/or “6”), **CH**  $\oplus/\ominus$ , and/or **SP/EP** when the Program screen on which you want to make changes is shown, then press **OK**.
- If the overlap is not yet solved, the conflicting programs will be shown on the Program check screen. Repeat the above steps again.

| PROGRAM 4                |          |      |         |    |
|--------------------------|----------|------|---------|----|
| START                    | 9:00PM   | STOP | 10:00PM |    |
| DATE                     | 12/24/03 | CH   | 10      | SP |
| PRESS (CANCEL) TO CANCEL |          |      |         |    |
| PRESS (OK) TO CONFIRM    |          |      |         |    |
| PRESS (PROG.) TO END     |          |      |         |    |

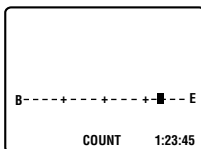
# Other Functions

## Checking tape position

When you change the VCR operation mode from the stop mode to fast forward or rewind mode, or when you perform an Index Search or Instant Review, the tape position indicator appears.

The position of "■" in relation to "B" (Beginning) or "E" (End) shows you where you are on the tape.

- Set "SUPERIMPOSE" to "ON". (pg. 14)



## Changing display information

Each time you press **DISPLAY**, the display panel shows the channel number and the clock time alternatively.

- You can change display in the stop, recording or during rewind/fast-forward.
- When "SUPERIMPOSE" is set to "ON" (pg. 14) and **DISPLAY** on the Remote is pressed, time counter will appear on the TV screen. To reset the time counter, press **C. RESET** on the Remote.



## Timer warning display

A warning appears on the TV screen to tell you that the timer-recording is to start in 5 minutes if you are not in the timer recording standby mode at that time. Press **TIMER** to put the VCR into timer recording standby mode. To clear the display, press **CANCEL** on the Remote.

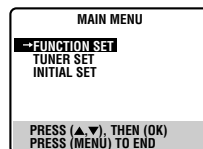


## Function settings

You can use the other useful function settings on the Function Set screen.

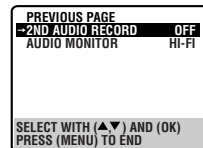
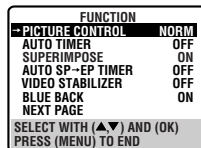
### 1 Access Main Menu screen, then Function Set screen

Press **MENU** on the Remote. Press  $\Delta \nabla$  to move the highlight bar (arrow) to "FUNCTION SET", then press **OK** or  $\triangleright$ .



### 2 Select Function

Press  $\Delta \nabla$  to move the highlight bar (arrow) to the function you want to set.



### 3 Change setting

Press **OK** or  $\triangleright$ . The default setting is **bold** in the following table. Press **MENU** to return to normal screen.

#### PICTURE CONTROL — NORM/EDIT/SOFT/SHARP

This function helps you to adjust the playback picture quality according to your preference.

**NORM:** Normally select this. Picture quality is adjusted automatically.

**EDIT:** Minimizes picture degradation during editing (recording and playback).

**SOFT:** Reduces image coarseness when viewing overplayed tapes containing much noise.

**SHARP:** Clearer, sharper-edged picture when viewing images with much flat, same-colored surfaces such as cartoons.

#### NOTE:

Select "EDIT" when you are editing tapes. After you finish editing the tapes, select "NORM".

#### AUTO TIMER — ON/OFF

##### • When this function is set to "ON":

The timer recording standby mode is automatically engaged when the VCR is turned off. It is temporarily canceled when the VCR is turned on. You do not have to press **TIMER** to engage or disengage the timer recording standby mode.

##### • When this function is set to "OFF":

You have to press **TIMER** to engage or disengage the timer recording standby mode.

---

### ■ SUPERIMPOSE — ON/OFF

When this function is set to “ON”, various VCR status information (on-screen display) appears on the screen.

#### NOTE:

*When you use this VCR as the playback VCR for editing a tape, be sure to set this function to “OFF”; otherwise, the VCR status information (on-screen display) will be recorded on the edited tape.*

---

### ■ AUTO SP→EP TIMER — ON/OFF

When this function is set to “ON”, the VCR automatically switches to EP mode to allow complete recording if there is not enough tape to record the entire program while timer-recording in SP mode.

**For Example,** Recording a program of 140 minutes in length onto a 120-minute tape

Approximately 110 minutes

Approximately 30 minutes

|         |         |
|---------|---------|
| SP mode | EP mode |
|---------|---------|

#### NOTES:

- If you have programmed the VCR to timer-record 2 or more programs, do not use this function, but change the tape speed manually during timer programming.
- There may be some noise and sound disturbance where the tape speed switches from SP to EP mode on the tape.
- This function is not available during ITR (Instant Timer Recording), and will not work properly on the following tapes: T(ST)-30, T(ST)-60, T(ST)-90, and T(ST)-120.

---

### ■ VIDEO STABILIZER — ON/OFF

When this function is set to “ON”, you can automatically correct vertical vibrations in the picture when playing back unstable recordings made on another VCR.

#### NOTE:

*To watch recordings with close-caption or when you finish viewing a tape, set this function to “OFF”.*

---

### ■ BLUE BACK — ON/OFF

When this function is set to “ON”, the TV screen becomes all blue when receiving a channel not in use.

#### NOTE:

*When you want to receive an unstable channel with poor signals, set this function to “OFF”.*

---

### ■ 2ND AUDIO RECORD — ON/OFF

#### ● When this function is set to “ON”;

If a SAP program is received, the SAP audio is recorded on both the normal and Hi-Fi tracks. The main audio is not recorded. If a non-SAP program is received, the main audio is recorded on both the Hi-Fi and normal tracks.

- When this function is set to “OFF”, the SAP audio cannot be recorded.

#### NOTES:

*When the channel is changed on the VCR;*

- The “STEREO” indication appears on the screen for about 5 seconds if the program is a stereo broadcast.
- The “SAP” indication appears on the screen for about 5 seconds if the program is a SAP broadcast.
- Both indications appear when a stereo program is accompanied by SAP sound.

---

### ■ AUDIO MONITOR — HI-FI/HI-FI L/HI-FI R/NORM/MIX

This VCR can record two sound tracks simultaneously (normal and Hi-Fi) on a Hi-Fi stereo tape. You can select the sound track(s) to listen to while playing back a Hi-Fi stereo tape. In addition, when playing back a prerecorded tape containing two separate audio programs on the Hi-Fi tracks, you can choose either one by selecting either “HI-FI L” or “HI-FI R”.

**HI-FI:** Normally select this. Hi-Fi sound is played back.

**HI-FI L:** Sound on the left Hi-Fi channel is played back.

**HI-FI R:** Sound on the right Hi-Fi channel is played back.

**NORM:** Sound on the normal track is played back.

**MIX:** Both sounds on the Hi-Fi track and normal track are mixed and played back.

#### NOTES:

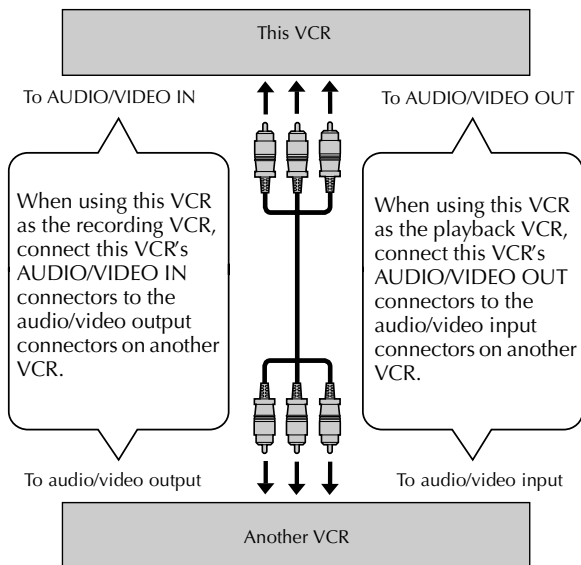
- While playing back a monaural tape, sounds on the normal track will be heard regardless of this setting.
- If RF connection is used for viewing pictures on the TV, sound will be monaural even though you select “HI-FI”.
- You can also use the **A. MONITOR** button on the Remote to select the desired monitor sound.

# Editing

You can use your VCR as the playback or recording VCR. You can use a camcorder as the playback VCR and your VCR as the recording VCR. Refer also to the other components' instruction manuals for connection and its operations.

## 1 Make connections

**Example: When another VCR is VHS VCR**



- If another VCR is monaural, connect this VCR's AUDIO L IN (or OUT) connector to the audio output (or input) connector on another VCR.

## 2 Load cassettes

Insert the playback cassette into the playback VCR and the cassette to be recorded on into the recording VCR.

## 3 Select input mode on recording VCR

Select the correct external input on the recording VCR. On this VCR (when using this VCR as the recording VCR); Select "F-1" — when connecting the other VCR to the audio/video input connectors on the front panel. Press **AUX** or **CH**  $\Delta/\nabla$  on the Remote. You can select the input mode also by pressing **PAUSE[CH]**, and then **FF(CH+)** or **REW(CH-)** on the VCR. See step 2 in "Basic Recording" (pg. 10).

## 4 Select edit mode

Set the edit mode to "ON" for the VCRs if such a mode is equipped.

- On this VCR, set "PICTURE CONTROL" to "EDIT" (pg. 13).

## 5 Start playback

Press **PLAY** (▶) on the playback VCR.

## 6 Start recording

Press **REC** (●) on the recording VCR.

# Specifications

## GENERAL

|                        |                                      |
|------------------------|--------------------------------------|
| Power requirement      | : AC 110 V – 220 V~, 50 Hz/60 Hz     |
| Power consumption      |                                      |
| Power on               | : 16 W                               |
| Power off              | : 3.4 W                              |
| Temperature            |                                      |
| Operating              | : 5°C to 40°C                        |
| Storage                | : -20°C to 60°C                      |
| Operating position     | : Horizontal only                    |
| Dimensions (W x H x D) | : 435 mm x 94 mm x 248 mm            |
| Weight                 | : 2.7 kg                             |
| Format                 | : VHS NTSC standard                  |
| Maximum recording time |                                      |
| SP                     | : 210 min. with T-210 video cassette |
| EP                     | : 630 min. with T-210 video cassette |

## VIDEO/AUDIO

|                           |   |
|---------------------------|---|
| Signal system             | : NTSC-type color signal and EIA monochrome signal, 525 lines/60 fields |
| Recording/Playback system | : DA-4 (Double Azimuth) head helical scan system                        |
| Signal-to-noise ratio     | : 45 dB   |
| Horizontal resolution     | : 230 lines   |
| Frequency range           |   |
| Normal audio              | : 70 Hz to 10,000 Hz  |
| Hi-Fi audio               | : 20 Hz to 20,000 Hz  |
| Input/Output              | : RCA connectors (IN x 1, OUT x 1)                                      |

## TUNER

|                  |   |
|------------------|---|
| Tuning system    | : Frequency-synthesized tuner   |
| Channel coverage |   |
| VHF              | : Channels 2–13   |
| UHF              | : Channels 14–69  |
| CATV             | : 113 Channels  |
| RF output        | : Channel 3 or 4 (switchable; preset to Channel 3 when shipped) 75 ohms, unbalanced |

## TIMER

|                    |  |
|--------------------|--|
| Clock reference    | : Quartz                               |
| Program capacity   | : 1-year programmable timer/8 programs |
| Memory backup time | : Approx. 3 min.                       |

## ACCESSORIES

|                      |  |
|----------------------|--|
| Provided accessories | : RF cable,<br>Infrared remote control unit,<br>Lithium battery – CR2032 –,<br>Conversion plug |
|----------------------|--|

Specifications shown are for SP mode unless specified otherwise.  
E. & O.E. Design and specifications subject to change without notice.